

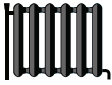


ENERG  
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Indoor unit E\*PT30X-\*\*\*\*D  
Outdoor unit PUZ-WM112YAA(-BS)



A++



A



40 dB  
60 dB



- 07 kW
- 10 kW
- 10 kW

2019

811/2013

BH79V003K04





	English	Deutsch	Franglais	Italiano	Espanol
	Nederlands	Svenska	Български	Português	Ελληνικά
	suomi	Costina	Български	Polski	Ελληνικά
	Outdoor unit	Außengerät	unité extérieure	unità esterna	unidad exterior
	1	Бульонити	Ущелно тло	unidad exterior	Εξωτερικό μονάδα
	2	Indoor unit	unité intérieure	unità interna	unidad interior
	3	Бinnenunit	Indoors eenheid	unidad interior	Εσωτερικό μονάδα
	4	Sisäyksykko	Внутренний блок	pedonika shempezzari	-
	5	Medium-temperature application	Mitteltemperaturanwendung	la applicazoni a media temperatura	la aplicacion de media temperatura
	6	Inden-temperatur-toepassings	mediumtemperatuurtoepassing	a aplicazio a media temperatura	η εφαρμογή σε μέση θερμοκρασία
	7	Keskilämpötilan sovellus	Stiefenbetrieb anlage	zastosowania w średnich temperaturach	-
	8	Low-temperature application	Niedertemperaturanwendung	la applicazoni a bassa temperatura	la aplicacion de baja temperatura
	9	Legtemperatuur-toepassing	Legtemperatuurtoepassing	a aplicazio a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
	10	maailmalämpötilan sovellus	nykysoveltyksen sovellus	zastosowania w niskich temperaturach	-
	11	Seasonal space heating energy efficiency class	de classe für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe de eficiencia energética de acondicionamiento ambiente	la clase de eficiencia energética estacional de calefacción
	12	de seizoenafhankelijke energie-efficiëntieklasse voor ruimteverwarming	seizoenafhankelijke energie-efficiëntieklasse voor ruimteverwarming	A classe de eficiencia energética de acondicionamiento ambiente sazonal	η τάξη ενεργειακής απόδοσης της εποχικής θέρμανσης χώρου
	13	Wasser heating energy efficiency class	Wasser heating energy efficiency class	Klasa sezonowa efektywności energetycznej ogrzewania pomieszczeń	-
	14	Water heating energy efficiency class	Water heating energy efficiency class	Klasa de eficiencia energética de acondicionamiento del agua	la clase de eficiencia energética de acondicionamiento del agua
	15	Water heating energy efficiency class	Water heating energy efficiency class	Klasa efektywności energetycznej podgrzewania wody	la robota ztema pomalinn (condizioni climatiche medie)
	16	Rated heat output under average climate conditions	den nominelle varmløbetilførsel (under gennemsnitlige klimaforhold)	la robota ztema pomalinn (condizioni climatiche medie)	A robota ztema pomalinn (condizioni climatiche medie)
	17	de nominale varmløbetilførsel (under gennemsnitlige klimaforhold)	Den nominelle varmløbetilførsel (under gennemsnitlige klimaforhold)	zastosowania moc średnią w warunkach klimatycznych	zastosowania moc średnią w warunkach klimatycznych
	18	Rated heat output under average climate conditions	den nominelle varmløbetilførsel (under gennemsnitlige klimaforhold)	la robota ztema pomalinn (condizioni climatiche medie)	la robota ztema pomalinn (condizioni climatiche medie)
	19	de nominale varmløbetilførsel (under gennemsnitlige klimaforhold)	Den nominelle varmløbetilførsel (under gennemsnitlige klimaforhold)	zastosowania moc średnią w warunkach klimatycznych	zastosowania moc średnią w warunkach klimatycznych
	20	Rated heat output under average climate conditions	den nominelle varmløbetilførsel (under gennemsnitlige klimaforhold)	la robota ztema pomalinn (condizioni climatiche medie)	la robota ztema pomalinn (condizioni climatiche medie)
	21	de nominale varmløbetilførsel (under gennemsnitlige klimaforhold)	Den nominelle varmløbetilførsel (under gennemsnitlige klimaforhold)	zastosowania moc średnią w warunkach klimatycznych	zastosowania moc średnią w warunkach klimatycznych
	22	Rated heat output under average climate conditions	den nominelle varmløbetilførsel (under gennemsnitlige klimaforhold)	la robota ztema pomalinn (condizioni climatiche medie)	la robota ztema pomalinn (condizioni climatiche medie)
	23	de nominale varmløbetilførsel (under gennemsnitlige klimaforhold)	Den nominelle varmløbetilførsel (under gennemsnitlige klimaforhold)	zastosowania moc średnią w warunkach klimatycznych	zastosowania moc średnią w warunkach klimatycznych
	24	Rated heat output under average climate conditions	den nominelle varmløbetilførsel (under gennemsnitlige klimaforhold)	la robota ztema pomalinn (condizioni climatiche medie)	la robota ztema pomalinn (condizioni climatiche medie)

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	$\eta_s$	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	8.8	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.21	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.4	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.30	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.60	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.7	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.35	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	8.8	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.21	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	8.7	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.60	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	1.2	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

#### Other items

Capacity control	variable			Rated air flow rate, outdoors	-	3170	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dBA				
Annual energy consumption	Q <sub>HE</sub>	5905	kWh				

#### For heat pump combination heater:

Declared load profile	XL			Water heating energy efficiency	$\eta_{wh}$	120	%
Daily electricity consumption	Q <sub>elec</sub>	6.600	kWh/h				
Annual electricity consumption	AEC	1443	kWh/h				

#### Contact details

MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	$\eta_s$	195	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7 °C	P <sub>dh</sub>	8.8	kW	T <sub>j</sub> = -7 °C	COP <sub>d</sub>	3.31	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +2 °C	P <sub>dh</sub>	5.7	kW	T <sub>j</sub> = +2 °C	COP <sub>d</sub>	4.56	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +7 °C	P <sub>dh</sub>	4.9	kW	T <sub>j</sub> = +7 °C	COP <sub>d</sub>	6.81	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	9.20	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	8.9	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3.32	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	8.7	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.60	-
T <sub>j</sub> = -15 °C (if TOL < -20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = -15 °C (if TOL < -20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	1.1	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

#### Other items

Capacity control	variable			Rated air flow rate, outdoors	-	3170	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dBA				
Annual energy consumption	Q <sub>HE</sub>	4145	kWh				

#### For heat pump combination heater:

Declared load profile	XL			Water heating energy efficiency	$\eta_{wh}$	120	%
Daily electricity consumption	Q <sub>elec</sub>	6.600	kWh				
Annual electricity consumption	AEC	1443	kWh				

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).  
(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.2	kW	Seasonal space heating energy efficiency	$\eta_s$	124	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7 °C	P <sub>dh</sub>	5.8	kW	T <sub>j</sub> = -7 °C	COP <sub>d</sub>	2.86	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +2 °C	P <sub>dh</sub>	5.4	kW	T <sub>j</sub> = +2 °C	COP <sub>d</sub>	3.58	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +7 °C	P <sub>dh</sub>	3.8	kW	T <sub>j</sub> = +7 °C	COP <sub>d</sub>	4.69	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.67	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	7.5	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.92	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	7.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.52	-
T <sub>j</sub> = -15 °C (if TOL < -20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = -15 °C (if TOL < -20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-15	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	9.2	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	3170	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dBA				
Annual energy consumption	Q <sub>HE</sub>	6990	kWh				

For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	$\eta_{wh}$	96	%
Daily electricity consumption	Q <sub>elec</sub>	8.200	kWh				
Annual electricity consumption	AEC	1808	kWh				

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).  
(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.9	kW	Seasonal space heating energy efficiency	$\eta_s$	169	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	6.5	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	4.25	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.73	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.0	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.71	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.7	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.46	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	9.4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.52	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.4	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2.52	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	9.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

#### Other items

Capacity control	variable			Rated air flow rate, outdoors	-	3170	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dBA				
Annual energy consumption	Q <sub>HE</sub>	5528	kWh				

#### For heat pump combination heater:

Declared load profile	XL			Water heating energy efficiency	$\eta_{wh}$	96	%
Daily electricity consumption	Q <sub>elec</sub>	8.200	kWh				
Annual electricity consumption	AEC	1808	kWh				

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	$\eta_s$	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	10.0	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.81	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.09	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.64	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	10.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.81	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	8.7	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.53	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	2	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	3170	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dBA				
Annual energy consumption	Q <sub>HE</sub>	3401	kWh				

For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	$\eta_{wh}$	135	%
Daily electricity consumption	Q <sub>elec</sub>	5.900	kWh/h				
Annual electricity consumption	AEC	1294	kWh/h				

#### Contact details

MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.



Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	$\eta_s$	220	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	10.0	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.30	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.73	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.7	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.12	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	10.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3.30	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	8.7	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.53	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	2	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

#### Other items

Capacity control	variable			Rated air flow rate, outdoors	-	3170	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dBA				
Annual energy consumption	Q <sub>HE</sub>	2390	kWh				

#### For heat pump combination heater:

Declared load profile	XL			Water heating energy efficiency	$\eta_{wh}$	135	%
Daily electricity consumption	Q <sub>elec</sub>	5.900	kWh/h				
Annual electricity consumption	AEC	1294	kWh/h				

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